

SATELLITE ROUTING PROTOCOL WITH DYNAMIC IP ADDRESSING

ABSTRACT OF THE DISCLOSURE

A satellite routing protocol is provided in a packet switched mesh network environment (i.e., where user traffic is not routed through a single or central node) wherein
5 all IP planning and routing in the global WAN network is provided through a central database
management element and routing information is disseminated separately from the
communication traffic via a bandwidth constricted control channel in communication with
each node but typically set aside for other purposes (such as conventional DAMA control).
Two specific approaches include a link state approach and a distance vector approach. The
10 specific embodiments disclosed for the Satellite Routing Protocol (SRP) system according to
the invention allows both fixed and mobile networks to connect directly to each other or to a
gateway network via either a terrestrial LAN or a Demand Assigned Multiple Access
(DAMA) WAN where there are links that are dynamically assignable.

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